

GERMANY.

Annalen der Hydrographie und Maritimen Meteorologie. M. 4°. Berlin.

Annalen der Physik. M. 8°. Berlin.

Aus dem Archiv der deutschen Seewarte. I. f°. Hamburg.

Beiblätter zu den Annalen der Physik. S-m. 8°. Berlin.

Beiträge zur Geophysik. Y. 8°. Stuttgart.

Beiträge zur Physik der freien Atmosphäre. Q. 4°. Strassburg.

Gaea. M. 8°. Leipzig.

Geographische Zeitschrift. M. 8°. Leipzig.

Halbmonatliches Literaturverzeichnis der Fortschritte der Physik. S-m. 8°. Braunschweig.

Himmel und Erde. M. 8°. Berlin.

Illustrierte aeronautische Mitteilungen. M. 4°. Strassburg.

Meteorologische Zeitschrift. M. 4°. Braunschweig.

Petermanns Mitteilungen. M. 4°. Gotha.

Physikalische Zeitschrift. S-m. 4°. Leipzig.

Weltall. M. 4°. Berlin.

Zeitschrift der Gesellschaft für Erdkunde. S-m. 4°. Berlin.

INDIA.

Indian Meteorological Memoirs. I. f°. Calcutta.

ITALY.

Bollettino bimensuale. Società Meteorologica Italiana.

B-m. 4°. Turin.

JAPAN.

Journal of the Meteorological Society of Japan. M. 8°.

Tokyo. [Papers in Japanese; sometimes English, French, etc.]

MEXICO.

Boletín Instituto científico y literario "Porfirio Diaz". M. 8°. Toluca.

NETHERLANDS.

Hemel en Dampkring. M. 8°. The Hague.

Mededeelingen en Verhangelingen. Koninklijk Nederlandsch Meteorologisch Institut. I. 8°. Utrecht.

SCOTLAND.

Journal of the Scottish Meteorological Society. Y. 4°. Edinburgh.

Scottish Geographical Magazine. M. 8°. Edinburgh.

SWITZERLAND.

Archives des Sciences Physiques et Naturelles. M. 8°. Genève.

UNITED STATES.

American Journal of Science. M. 8°. New Haven.

Astrophysical Journal. M. 4°. Chicago.

Bulletin American Geographical Society. M. 8°. New York.

Bulletin Geographical Society of Philadelphia. M. 8°. Philadelphia.

Experiment Station Record. U. S. Department of Agriculture. M. 8°. Washington.

Journal of the Franklin Institute. M. 8°. Philadelphia.

Journal of Geography. M. 8°. New York.

Monthly Weather Review. M. 4°. Washington.

National Geographic Magazine. M. 8°. Washington.

Physical Review. M. 8°. Ithaca.

Proceedings American Academy of Arts and Sciences. I. 8°. Boston.

Proceedings American Philosophical Society. I. 8°. Philadelphia.

Science. W. 4°. New York.

Scientific American and Supplement. New York. W. f°.

Terrestrial Magnetism and Atmospheric Electricity. Baltimore. M. 8°.

Water supply and Irrigation Papers. U. S. Geological Survey. I. 8°. Washington.

In addition to the above we note that every large library receives the volumes of the International Catalogue of Scien-

tific Literature, which has been published for the past four years under the auspices of the Royal Society in London. Part F, which refers especially to meteorology and climatology, will always be found useful for reference, if one wishes to consult the latest memoirs on any special question in meteorology.

NOTE.—M. monthly. W. weekly. Q. quarterly. S-m. semi-monthly. B-m. bi-monthly. Y. yearly. S-a. semi-annually. D. daily. I. irregular intervals. f. folio.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Acting Librarian.

The following titles have been selected from among the books recently received, as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies. Most of them can be loaned for a limited time to officials and employees who make application for them.

Augustin, Fr[antisek].

Autografické záznamy tlaku, teploty, směru a rychlosti větru na rozhledně na Petrině na Praze R. 1895. (Rozpravy České Akademie císaře Františka Josefa pro vědy. Rocník V. Trída II. Číslo 16.) 85 pp. 4°. Praze. 1896.

Same. 1896. (Rozpravy České Akademie císaře Františka Josefa pro vědy. Rocník VI. Trída II. Číslo 22.) 86 pp. 4°. Praze. [1897.]

Meteorologická pozorování z rozhledny na Petrině v Praze 1894-1897, 1899-1905. 4°. [Praze.] n. d.

Záznamy autografických přístrojů na rozhledně na Petrině v Praze od R. 1897-1900. 41 pp. 4°. Praze. 1902.

Austria. K. k. Zentral-Anstalt für Meteorologie und Geodynamik.

Jahrbuch. 1904 [and] Anhang. 4°. Wien. 1906.

Beloňlav, Josef.

Seznam prací, pojednání a článku, jež napsal Prof. Dr. František Augustin. [Catalogue of meteorological writings of Prof. F. Augustin.] 19 pp. 8°. Praha. 1906.

Bulgaria. Institut Météorologique Central.

Tremblements de terre en Bulgarie. No. 6. Liste des tremblements de terre observés pendant l'année 1905. 142 pp. 8°. Sofia. 1906.

Colegio de Belén. Observatorio.

Observaciones. 1905. v. p. f°. Habana. 1906.

Ekholm, Nils.

Stormvarningar på Sveriges västkust. (Sveriges Allmänna Sjöfartsförenings Tidskrift. 4 årgången. 1906. Pp. 50-67.) 8°.

France. Service Hydrométrique du bassin de la Seine.

Observations sur les cours d'eau et la pluie... 1904. 7 sheets, 43 by 56 cm. n. t. p. Résumé. 1904. 22 pp. f°. Paris. 1905.

Great Britain. Board of Trade.

Statistical tables relating to the British colonies, possessions, and protectorates, 1903. xiii, 876 pp. f°. London. 1905.

Great Britain. Meteorological Office.

A barometer manual for the use of seamen. 45 pp. 8°. London. 1905.

Hourly readings ... at four observatories in connection with the Meteorological Office, 1903. xiii, 197 pp. f°. London. 1906.

Meteorological observations at stations of the second order, 1901. xiv, 179 pp. f°. Edinburgh. 1906.

Great Britain. National Physical Laboratory.

Report of the Observatory department. 1905. 43 pp. 4°. Teddington. 1906.

Great Britain. Royal Observatory, Greenwich.

Results of the magnetical and meteorological observations, 1904. f°. Edinburgh. 1905.

Results of measures ... of photographs of the sun, 1904. f°. xii, 97 pp. Edinburgh. 1906.

Hellmann, G[usta]v.

Die Niederschläge in den norddeutschen Stromgebieten. 3 vols. 4°. Berlin. 1906.

International Latitude Observatory of Mizusawa.

Annual report of the meteorological and seismological observations, 1905. 13 pp. 4°. [Mizusawa.] 1906.

Kuznetsov, V. V.

[Apparatus for determination of direction and relative velocity of motion of clouds.] [Russian title and text.] (Bull. Ac. sc., St. Petersburg. 1904. T. 21, No. 5.) Pp. 251-267. f°. St. Petersburg. 1905.

Lamprecht, Guido.

Wetter-Kalender. 38 pp. 12°. Bautzen. 1905.

Liverpool Observatory.

Report of the Director to the Marine Committee. 1905. 41 pp. 8°. Liverpool. 1906.

Marriott, William.

Some facts about the weather. 32 pp. 8° London. 1906.

Naturforschender Verein in Brünn.

Verhandlungen . . . 1904. (47), 276 pp. 8°. Brünn. 1905.

Naturforschender Verein in Brünn. Meteorologische Commission.

23 Bericht . . . 1903. xv, 169 pp. 8°. Brünn. 1905.

Nell, Chr. A. C.

Uitkomsten der waarnemingen omtrent poolbanden, van 1874 tot 1894 hoofdzakelijk te Groningen en te Oosterbeek (bij Arnhem) verricht door H. I. H. Groneman, bewerkt door . . . (Overgedrukt uit "Hemel en Dampkring". 3e jaargang, 1906.) 17 pp. 8°. n. t. p.

Norway. Norske Meteorologiske Institut.

Jahrbuch . . . 1905. xiii, 120 pp. f°. Kristiania. 1906.

Paulsen, Adam.

Sur les récentes théories de l'aurore polaire . . . (Oversigt Kgl. Danske vid. selsk. forhandl. Kjöbenhavn. 1906. No. 2.) Pp. 109-144. 8°. n. t. p.

Philippine Islands. Weather Bureau.

Annual Report of the Director . . . 1903. Pt. 3. 1128 pp. 4°. Manila. 1905.

Physikalischer Verein zu Frankfurt am Main.

Jahresbericht. 1904-1905. 106 pp. 8°. Frankfurt am Main. 1906.

Russia. Central Physical Observatory.

Annales. 1903. 1^{er} et 2^{me} parties. f° St. Petersburg. 1905.

St. Ignatius. Meteorological Observatory.

11th annual report. 18 pp. 8°. Cleveland. 1905-1906.

South Australia. Government Astronomer.

Rainfall in South Australia and the Northern Territory, 1902 and 1903. 65 pp. f°. Adelaide. 1905.

Upsala. Université. Observatoire Météorologique.

Bulletin mensuel. 1905. 74 pp. f°. Upsal. 1905-6.

Wallén, Axel.

Regime hydrologique du Dalelf. (Extr. Bull. Geol. Inst., Upsala. No. 1, v. 8.) 72 pp. 4°. Upsal. 1906.

RECENT PAPERS BEARING ON METEOROLOGY.

C. FITZHUGH TALMAN, Acting Librarian.

The subjoined titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers or other communications bearing on meteorology or cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled; it shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau. Unsigned articles are indicated by a —

Bulletin of the American Geographical Society. New York. Vol. 38. July, 1906.

Ward, Robert DeC[ourcy]. The classification of climates. Pp. 401-412.

Gannett, Henry. Certain relations of rainfall and temperature to tree growth. Pp. 424-434.

Engineering News. New York. Vol. 50. Aug. 2, 1906.

— Examples of the protection of chimneys against lightning. P. 120.

Nature. London. Vol. 74. Aug. 9, 1906.

Lockyer, William J. S. Atmospheric pressure changes of long duration. Pp. 352-354.

Proceedings of the Royal Society. London. Series A. Vol. 78.

Lockyer, William J. S. Barometric variations of long duration over large areas. Pp. 43-60.

Shaw, W[illiam] N[apier]. An apparent periodicity in the yield of wheat for eastern England, 1885-1905. Pp. 69-76.

Quarterly Journal of the Royal Meteorological Society. London. Vol. 32. July, 1906.

Mill, H[ugh] R[obert]. South Africa as seen by a meteorologist during the visit of the British Association in 1905. Pp. 177-188.

Hands, Alfred. Some so-called vagaries of lightning reproduced experimentally. Pp. 189-196.

Stevens, Catharine O. Note on the value of a projected image of the sun for meteorological study. Pp. 199-201.

Synons' Meteorological Magazine. London. Vol. 41. July, 1906.

Dines, W. H. Two new light meteorographs for use with unmanned balloons. Pp. 101-102.

Boys, H. A. Color of lightning. P. 108.

Archives des Sciences Physiques et Naturelles. Genève. 4 période. Tome 2. 15 juillet 1906.

Brunhes, Bernard. Sur la théorie des règles de Guillet pour la prévision du temps. Pp. 40-62.

Bulletin de la Société Belge d'Astronomie. Bruxelles. 11 année. Juin 1906.

Durand-Gréville. Rubans et couloirs de grain. Pp. 269-292.

Comptes Rendus de l'Académie des Sciences. Paris. Tome 143. 9 juillet 1906.

Mercanton, Paul L. Sur l'inclinaison magnétique terrestre aux époques préhistoriques. Pp. 139-140.

Störmer, Carl. Sur les trajectoires des corpuscules électriques dans l'espace sous l'influence du magnétisme terrestre, avec application aux aurores boréales et aux perturbations magnétiques. Pp. 140-142.

Villard, P. Sur l'aurore boréale. Pp. 143-145.

La Nature. Paris. 34 année. 11 août 1906.

Rudaux, Lucien. Photographies d'aurores boréales. Pp. 175-176.

Revue Néphologique. Mons. Juillet 1906.

Nell, Ch. A. C. L'orientation des bandes polaires. Pp. 52-54.

Bracke, A. La nomenclature des cirrus. Pp. 54-56.

Annalen der Physik. Leipzig. 4 Folge. Band 20. No. 9. 1906.

Warburg, E., and Leithäuser, G. Ueber die Darstellung des Ozons aus Sauerstoff und atmosphärischer Luft durch stille Gleichstromentladung aus metallischen Elektroden. Pp. 734-742.

Warburg, E., and Leithäuser, G. Ueber den Einfluss der Feuchtigkeit und der Temperatur auf die Ozonisierung des Sauerstoffs und der atmosphärischen Luft. Pp. 751-758.

Beiträge zur Physik der freien Atmosphäre. Strassburg. 1 Band, 1906.

Ejerknes, V., and Sandström, J. W. Hilfsgrössen zur Berechnung der Druckverteilung in der Atmosphäre an den internationalen Tagen 1900-1903. Pp. 1-17.

Schmidt, A. Die Atmosphäre des Weltraums. Pp. 18-29.

Geographische Abhandlungen. Leipzig. Band 7, Heft 4. 1906.

Vujevic, Paul. Die Theiss; eine potamologische Studie. Pp. 1-76.

Meteorologische Zeitschrift. Braunschweig. Band 23. Juli 1906.

Steiner, L. Graphische Methode zur Bestimmung der Insolationsmenge. Pp. 294-300.

Kassner, C[arl]. Normale Monatsmittel der Temperatur und des Niederschlags für den Brocken. Pp. 300-306.

Nordmann, Charles, and Le Cadet, G. Messungen des Potentialgefälles und der Ionisation der Atmosphäre während der totalen Sonnenfinsternis am 30 August 1905. Pp. 306-310.

— Der Frühlingseinzug in Mitteleuropa nach Prof. E. Ihne. Pp. 313-315.

Sapper, K. Antipassat in Westindien und Mittelamerika. Pp. 315-316.

H[ann], J[ulius]. Luft- und Wassertemperaturen im Mittelmeere. Pp. 316-317.

Conrad, V. Bemerkungen zum Zusammenhang des "Knisterns im Telephon" auf dem Sonnbllick mit Potential und Zerstreuung. Pp. 318-319.

Greim, G. Zur Entstehung des Graupels. P. 320.

Siegel, Franz. Resultate der meteorologischen Beobachtungen im Jahre 1905 am Observatorium erster Ordnung zu Curityba (Staat Paraná). Pp. 321-322.

Nordmann, Charles. Ueber einige Experimente zur Bestimmung der Ionisation der Atmosphäre, die in Algerien anlässlich der totalen Sonnenfinsternis vom 30 August 1905 angestellt wurden. Pp. 322-323.

C, V. Luftelektrische und photometrische Beobachtungen während der totalen Sonnenfinsternis vom 30 August 1905 im Palma (Mallorca) vom J. Elster, H. Geitel, und F. Harms. Pp. 323-325.

H[ann], J[ulius]. Meteorologische Beobachtungen zu Good Hope im arktischen Nordamerika 1900-1903. Pp. 329-330.

Petermanns Mitteilungen. Gotha. Band 52. 1906.

Neumann, L. Deutschlands mittlere Jahres-, Januar-, April-, Juli-, und Oktober-Temperaturen. Pp. 140-142.

Das Weltall. Berlin. 6 Jahrgang. Juli 1, 1906.

Krebs, Wilhelm. Wogenbewegungen der Atmosphäre, erkennbar auf Luftdruckkarte und Barogramm. Pp. 307-312.

Das Wetter. Berlin. 23 Jahrgang.

Klengel, Friedrich. Die Niederschlagsverhältnisse von Deutsch-Südwestafrika. (Mai 1906.) Pp. 103-107.

Stiepani, Martin. Luzon in seinen klimatischen Beziehungen. (Mai 1906.) Pp. 107-111.

Mylius, G. Wetterinstinkt. (Juni 1906.) Pp. 121-125.

Klengel, Friedrich. Die Niederschlagsverhältnisse von Deutsch-Südwestafrika. (Juni 1906.) Pp. 125-130.

Stiepani, Martin. Luzon in seinen klimatischen Beziehungen. (Juni 1906.) Pp. 130-134.

Schips, K. Vom "Wettermachen" im grossen. (Juni 1906.) Pp. 137-140.

Diesner, P. Witterung auf der Zugspitze in Winterhalbjahr 1905-6. (Juni 1906.) Pp. 140-142.

Mylius, G. Wetterinstinkt. (Juli 1906.) Pp. 145-153.

Klengel, Friedrich. Die Niederschlagsverhältnisse von Deutsch-Südwestafrika. (Juli 1906.) Pp. 153-156.

Hecker, Alfred. Die Wettervorhersage. (Juli 1906.) Pp. 161-166.